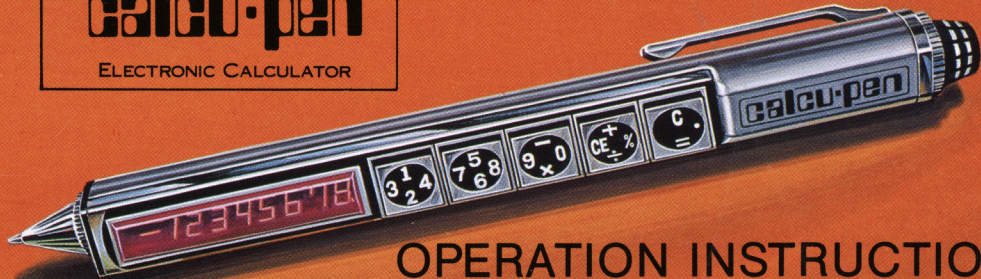


calcu·pen

ELECTRONIC CALCULATOR



OPERATION INSTRUCTIONS

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*Thank you very much for your selection of your ultra-compact CALCU-
PEN pen type electronic calculator.
Please completely read these operation instructions for most correct use
and longest service.*



■ OPERATION NOTES

Because this electronic calculator includes LSI's, IC's, and other ultra-small precision components, be sure to carefully note the following information.

- * Never attempt to disassemble the calculator body.
- * Be careful not to throw the unit, drop it or subject it to strong impact shock.
- * Be sure to avoid such causes of damage as extreme changes in temperature, direct sunlight, humidity, and dust.
- * If the unit is not used for a month or more, be sure to remove the battery from the unit. Also be sure not to leave a completely consumed battery inside the unit.

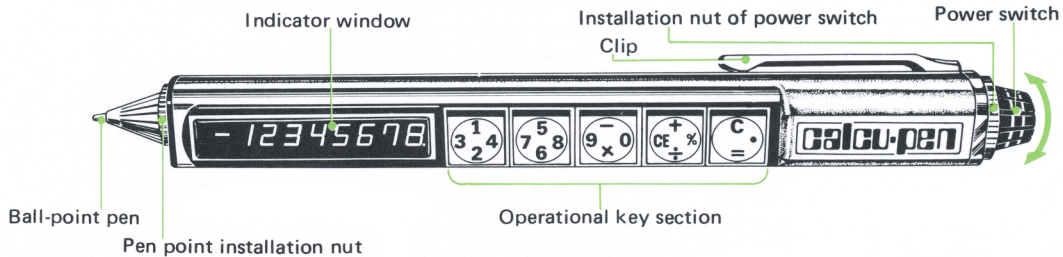
- * Use a dry, soft cloth to clean the unit. Never attempt to use volatile chemicals, such as thinner or benzine, nor a wet cloth, for cleaning.

CAUTION!

When battery power decreases to a low level, it may affect the performance.

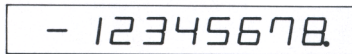
1. Check to be sure that the ON-OFF switch is at the "ON" position. "O" should appear at the right hand display position.
2. Press the "8" key eight times. If the display does not show "88888888" (example "8888"), the battery should be replaced.

■ PARTS IDENTIFICATION



■ EXPLANATION OF INDICATIONS IN THE INDICATOR WINDOW

- * This window indicates the entered number or an answer up to 8 digits. The indication method is the "zero suppress" method, which indicates no unnecessary zero.



- * Minus sign

4 When a registered number, or the result of a calculation, is a minus

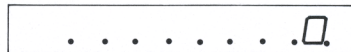
number, a minus (—) sign is indicated at the leftmost digit place.



- * Overflow indication

1. When the range of integral numbers of a calculation result exceeds 8 digits
2. When the divisor is zero (A—O). In the above instances, a zero at the rightmost digit place

and decimal points at all digits will illuminate.



- * The "overflow" indication means that the calculation capacity of the calculator is exceeded, and all the keys except the clear key will be locked electronically.

■ EXPLANATION OF INDICATIONS ON OPERATIONAL KEYS



● (decimal-point key)

When entering a figure which has a decimal point, push this key at the position of the decimal point.

1 – 9 and 0 (number keys)

These keys indicate the respective digits. Use these keys to enter a number in the calculator.

To “register” a number is to enter a number in the calculator by using the number keys and the decimal-point key.

$+-\times\div\% =$ (calculation function keys)
Push at the respective positions as indicated in the calculation formula.

**Plus Key**

+ Push when adding.

**Minus Key**

— Push when subtracting.

**Multiplication Key**

× Push when multiplying.

**Division Key**

÷ Push when dividing.

**Percent Key**

% Push when multiplying or dividing by 1/100.

**Equal Key**

= Push to receive the answer



Clear Key

C This key is used to completely clear the conditions inside the calculator. This key is also used to clear an "overflow" error.



Clear-entry Key

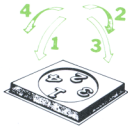
CE This key is used to clear an incorrectly registered number. If an incorrect number is entered, the incorrect number only can be cleared by pushing this key. Note, however, that this clearing is impossible after an answer is given or immediately after a calculation function key is depressed.

■ EXPLANATION OF THE OPERATIONAL KEYS (How to operate the keys)

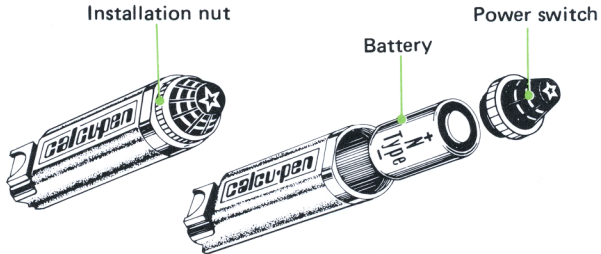
Unlike ordinary portable electronic calculators, the operational keys of this unit have a special four-in-one type construction. For your actual use, however, their functions are the same as those of ordinary electronic

calculators. It is possible to enter the desired number, or to command, by pushing the key in the appropriate direction.

As shown in the figure, lightly place the tip of the index finger on the recessed part of the key, and operate each function by pushing the finger toward the desired position: up, down, right or left.



■ HOW TO INSERT AND REPLACE THE BATTERY

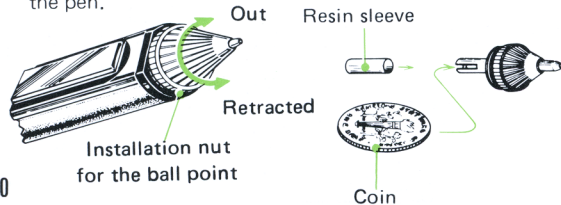


1. Loosen the installation nut of the power switch as shown in the figure, and remove the power switch.
 2. Insert the battery in the battery holder inside the case with the positive (+) side facing outward.
 3. And install the power switch by tightening the nut.
- * Use a 1.5V standard "N" type battery. However, for longer battery life, use an Alkaline type battery such as Mallory Mn-9100, Eveready E90 or equivalent available at any store.

■ EXPLANATION OF THE PEN SECTION

This unit also includes a ball-point pen useful for memos at meetings or for calculations.

The ball-point of this pen can be easily pushed out and retracted by turning the conical knob on the end of the pen.



■ REPLACEMENT OF THE BALL-POINT PEN

When the ink is consumed

1. Loosen the tightening nut when the ball-point pen protrudes to the maximum, and remove the point of the pen from the body.
2. Pull out the resin sleeve backward.
3. Insert a coin or similar item into the notch of the pen holder and push the ink refill forward.
4. Holding the point of the ink refill, pull it outward.
5. Insert a new ink refill from the point of the pen.
6. Then be sure to re-insert the resin sleeve to the original position.
7. Tighten the nut to the body.

■ CALCULATION METHOD

- * Before calculation, note that the following operations should be confirmed, after the power switch is on.
- * Power switch on $\longrightarrow$ zero indication
- * $1.1111111 \times = \longrightarrow 1.2345678$
- * The limit of registered figures is 8 digits. No more figures will register, regardless of how many additional times the keys are operated.

For precise calculation results....

* Addition and subtraction

Ex.1 $123 + 456 - 79 =$

Operation key	Indicator window	Remarks
123	123.	
+	123.	
456	456.	
-	579.	
79	- 79.	
=	500.	Answer

Ex.2 $-56 + 100 + 16 =$

Operation key	Indicator window	Remarks
-	0.	
56	- 56.	
+	- 56.	
100	100.	
+	44.	
16	16.	
=	60.	Answer

* Multiplication and division

Ex. 1 $56 \times 78 \times 3 =$

Operation key	Indicator window	Remarks
56	56.	
x	56.	
78	78.	
x	4368.	
3	3.	
=	13104.	Answer

Ex. 2 $-56 \times 78 \times 2.2 =$

Operation key	Indicator window	Remarks
—	0.	
56	— 56.	
x	— 56.	
78	78.	
x	— 4368.	
2.2	2.2	
=	—9609.6	Answer

Ex. 3 $98 \div 2 \times 7.6 =$

Operation key	Indicator window	Remarks
98	98.	
÷	98.	
2	2.	
x	49.	
7.6	7.6	
=	372.4	Answer

* Mixed calculations

Ex. 1 $(12 + 3 - 45) \times 6 \div 7 =$

Operation key	Indicator window	Remarks
12	12.	
+	12.	
3	3.	
-	15.	
45	— 45.	
x	— 30.	
6	6.	
÷	— 180.	
7	7.	
=	-25.714285	Answer

* Calculation with constant numbers

Ex. 1 Multiplication with constant numbers

	Operation key	Indicator window
2 x 3	2 x 3 =	6.
2 x 8	8 =	16.
2 x 9	9 =	18.
2 x 12	12 =	24.

Ex. 2 $3 \times 6.5 = 19.5$ $3 \times 7 = 21$

	Operation key	Indicator window
3 x 6.5	3 x 6.5 =	19.5
3 x 7	7 =	21.
3 x 13	13 =	39.
3 x 15	15 =	45.

* Division with constant numbers

Ex. 1

	Operation key	Indicator window
$100 \div 2$	$100 \div 2 =$	50.
$50 \div 2$	$50 =$	25.
$40 \div 2$	$40 =$	20.
$25 \div 2$	$25 =$	12.5

* Calculation of power

Ex. 1

	Operation key	Indicator window	Remarks
$1.1^2=$	$1.1 \times =$	1.21	2nd power
$1.1^3=$	$=$	1.331	3rd power
$1.1^4=$	$=$	1.4641	4th power
$1.1^5=$	$=$	1.61051	5th power

* Calculation of percentages

Ex. 1

23% of \$160 =

Operation key	Indicator window	Remarks
160	160.	
$\times$	160.	
23	23.	
%	36.8	Answer

Answer: \$36.80

Ex 2 \$36.80 = 23% of ?

* To calculate back to the previous example:

Ex 3 What percentage is \$36.80
of \$160. ?

Ex 4 112% of \$180 =

Operation key	Indicator window	Remarks
36.80	36.80	
÷	36.80	
23	23	
%	160	Answer

Answer: \$160.

Operation key	Indicator window	Remarks
36.80	36.80	
÷	36.80	
160	160.	
%	23.	Answer

Answer: 23%

Operation key	Indicator window	Remarks
180	180.	
x	180.	
112	112.	
%	201.6	Answer

Answer: \$201.6

* **Correction of registered numbers**

Ex. 1 Correct "123 + 456" to "123 + 465":

Operation key	Indicator window	Remarks
123	123.	Correction
+	123.	
456	456.	
CE	0.	
465	465.	
=	588.	Answer

Note: The registered number cannot be corrected after a calculation, nor just after pressing the x, , +, -, =, and % keys.

Ex. 2 Correct "123 ÷ " to "123 x 2"

Operation key	Indicator window	Remarks
123	123.	
÷	123.	
x	123.	
2	2.	
=	246.	Answer

If a function key (x, ÷, +, -) is operated by mistake, press the correct function key for correction.

■ SPECIFICATIONS OF CALCU-PEN

Digital indication:	8 digits (decimal places: =7 digits)	Elements:	One 1-chip LSI and others
Calculation digits:	Calculated numbers: 8 digits Calculating numbers: 8 digits Answer: 8 digits (decimal places: 7 digits)	Indication elements:	LED (light-emitting diodes) 9 digits
Decimal point method:	Floating system	Power source:	DC 1.5V (0.15W) One single-type dry cell
Symbol:	Minus sign included	Operation time:	Alkaline dry cell "N" type Continuous use time (indication 5555): 2 hours (time may vary slightly depending upon kind of dry cell.)
Registration:	Three registrations in series	Operation temperature range:	0°C ~ 40°C.
Arithmetic functions:	Addition, subtraction, multiplication, division, continuous multiplication and division, constant multiplication and division, calculation of squares, reverse calculation, mixed calculation, calculation of powers, calculation of percentages, reduction and premium-rate calculations	Accessories:	Operating instructions, one dry cell(N), one ink refill for the ballpoint pen,



LIMITED WARRANTY

THE CALCU-PEN IS WARRANTIED TO THE ORIGINAL PURCHASER FOR FREE REPLACEMENT OR REWORK OF DEFECTIVE MATERIALS AND WORKMANSHIP FOR 90 DAYS FROM DATE OF PURCHASE.

THIS WARRANTY DOES NOT APPLY TO PACKING MATERIALS, BATTERY, BALL POINT PEN, APPEARANCE ITEMS, NOR TO MISUSE OR ABUSE.

THE CALCU-PEN MUST BE SENT TO THE POINT OF YOUR PURCHASE WITH DATED PROOF OF PURCHASE. HOWEVER AFTER 90DAYS WARRANTY PERIOD, CONTACT FOLLOWING ADDRESS FOR REPAIR.

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